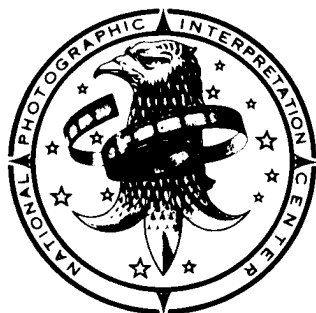


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**P**HOOTOGRAPHIC  
**I**NTERPRETATION  
**R**EPORT

NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**NEW UNIDENTIFIED BUNKERS  
AT FOUR SOVIET ICBM  
COMPLEXES (TSR)**



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APRIL 1978

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**DISSEMINATION CONTROL ABBREVIATIONS**

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
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## NEW UNIDENTIFIED BUNKERS AT FOUR SOVIET ICBM COMPLEXES (TSR)

1. (TSR) New arch-roofed, earth-mounded bunkers, some of which are for vehicles and others probably for personnel, were constructed between 1975 and 1977 near the rail-to-road transfer points (RTPs) at four ICBM complexes in the Soviet Union—Kostroma, Kozelsk, Tatishchevo, and Yoshkar-Ola. These ICBM complexes are within 400 nautical miles (nm) of Moscow (Figure 1). One drive-in bunker and two probable personnel bunkers are 2.0 nm north of the Kostroma ICBM RTP [redacted] Figures 2 and 3); two drive-in bunkers are 2.0 nm northeast of the Kozelsk ICBM RTP [redacted] Figure 4); two drive-in bunkers are 1.5 nm south of the Tatishchevo ICBM RTP [redacted] Figure 5); and one drive-in bunker is 1.5 nm northeast of the Yoshkar-Ola ICBM RTP [redacted] Figure 6). At Kostroma and Yoshkar-Ola, the bunkers are also near the ICBM complex radio communications receiver facility. None of these bunkers are fence secured, even though most of them are along major highways.

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2. (TSR) Each site has one drive-in bunker that [redacted]; it could house large vehicles or large pieces of equipment. Each of these bunkers is made of concrete, arch-roofed segments and is situated in an excavation [redacted]. A concrete driveway slopes down to the bunker entrance. At Tatishchevo and

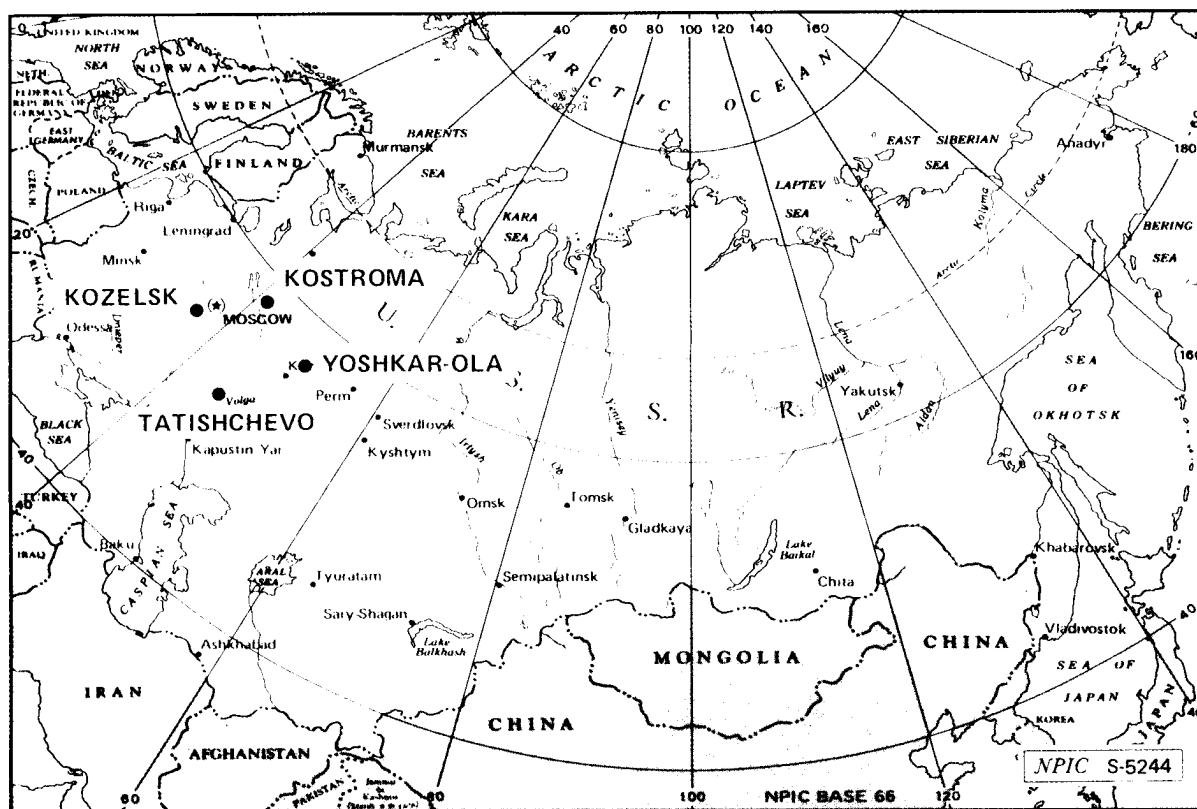
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FIGURE 1. LOCATIONS OF ICBM COMPLEXES IN THE SOVIET UNION WITH NEW UNIDENTIFIED BUNKERS

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Yoshkar-Ola, a concrete apron is at the top of the driveway; at Kostroma, a loose-surfaced, vehicle turnaround spur is at the top of the driveway. Two conspicuous, curved retaining walls flank the entrance to each bunker, and at Kostroma, a roof vent is near the earth-covered end. In addition, each of these bunkers has at least one probable fuel storage tank buried nearby. During the construction of the bunkers at Tatishchevo and Kostroma, a drainage ditch was identified extending from the bunker entrance to a nearby stream. On recent photographic coverages, the drainage ditch at Kostroma was still open and the one at Tatishchevo contained a buried drain. The drainage ditch and buried drain may be used for water runoff or is possibly associated with unidentified maintenance performed inside the bunker.

3. (TSR) The other bunkers at the sites vary in size and configuration; some are constructed of concrete and others of metal (Table 1). They appear to be auxiliary bunkers and have straight retaining walls at the entrance.

4. (TSR) The bunker sites at Kostroma and Yoshkar-Ola also have vehicle revetments. However, no vehicles other than those used for construction have ever been identified in the revetments or at the bunkers. The exact function of the revetments and bunkers is unknown.

**REFERENCES**

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**MAP**

SAC.US Air Target Chart; Series 200; Sheets 0154-14 (Kostroma), 0167-14 (Kozelsk), 0235-2 (Tatishchevo), and 0155-22 (Yoshkar-Ola); scale 1:200,000 (UNCLASSIFIED)

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Table 1. Data on New Unidentified Bunkers at Four Soviet ICBM Complexes  
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ICBM Complex	Bunker Type/ Construction Material	Geographic Coordinates
Kostroma (SS-17) (see Figs 2 & 3)	Drive-in/ concrete Auxiliary, prob personnel (2)/ metal*	57-53-20N 041-15-00E 57-53-20N 041-14-30E
Kozelsk (SS-19) (see Fig 4)	Drive-in/ concrete Auxiliary, drive-in/ concrete	53-57-30N 035-49-40E 53-57-30N 035-49-40E
Tatishchevo (SS-19) (see Fig 5)	Drive-in/ concrete Auxiliary, drive-in/ prob concrete	51-40-40N 045-32-00E 51-40-40N 045-32-00E
Yoshkar-Ola (SS-13) (see Fig 6)	Drive-in/ concrete	56-34-30N 048-05-40E

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\*These bunkers consist of a series of metal, arch-roofed segments with a base adjacent to a partially constructed bunker. One of the segments has a bulkhead with a personnel entrance. several of these segments were seen in profile

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\*\*Measurement obtained after earth mounding.

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